

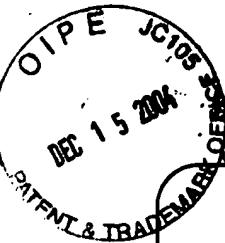
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PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/789,627	
	Filing Date	02/26/04	
	First Named Inventor	Howard Kaufman	
	Art Unit	1641	
	Examiner Name	to be assigned	
Total Number of Pages in This Submission	42	Attorney Docket Number	5199-49

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Todd Holmbo, Reg. No. 42,665
Signature	
Date	12/10/04

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Howard Kaufman, et al. Docket No.: 5199-49
Serial No.: 10/789,627 Examiner: to be assigned
Filed: February 26, 2004 Group Art Unit: 1641
Title: **COMPOSITION FOR DELIVERING AN AGENT TO A TARGET CELL AND USES THEREOF**

/ December 10, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97(b)**

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, applicant hereby notifies the U. S. Patent and Trademark Office of the following documents, which are listed on the attached PTO/SB/08A and PTO/SB/08B forms. The examiner may deem these documents to be relevant to patentability of the claims of the above-identified application. Copies of the documents are enclosed for the examiner's convenience.

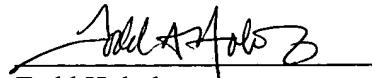
The submission of the listed documents is not intended as an admission that any of the documents constitute prior art against the claims of the present application. Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Applicants respectfully request that the listed documents be considered by the examiner and be made of record in the present application and that initialed copies of Forms PTO/SB/08A and PTO/SB/08B be returned in accordance with MPEP §609.

It is understood that no fee is necessary for submission of this Information Disclosure Statement, because it is being filed before the later of three months from the filing date or the mailing of the first Office Action on the merits.

The Commissioner is hereby authorized to charge payment of any fees associated with this application or credit any overpayment to Deposit Account No. 02-4270.

Respectfully submitted,



Todd Holmbo
Reg. No. 42,665
Attorney for Applicants
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FELDER & STEINER LLP
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/789,627
Filing Date	02/26/04
First Named Inventor	Howard Kaufman
Art Unit	1641
Examiner Name	to be assigned
Attorney Docket Number	5199-49

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)			
		US- 6,150,584	11-21-2000	Kucherlapati, et al.	
		US- 6,162,963	12-19-2000	Kucherlapati, et al.	
		US- 6,278,039	08-21-2001	Johnson, et al.	
		US- 6,448,080	09-10-2002	Ward, et al.	
		US- 6,461,864	10-08-2002	Soriano, et al.	
		US- 6,479,284	11-12-2002	Marasco, et al.	
		US- 6,503,712	01-07-2003	Thukral, et al.	
		US- 20020006664	01-17-2002	Sabatini, D.M.	
		US- 20030017549	01-23-2003	Owens, et al.	
		US- 20030018993	01-23-2003	Gutterson, et al.	
		US-			

FOREIGN PATENT DOCUMENTS

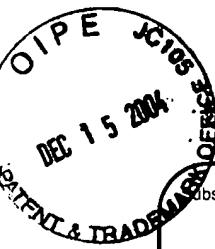
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>if known</i>)				
		WO9932619	12-20-2001	Mushegian, et al		
		WO0129058	04-26-2001	Mello, et al.		
		WO0168836	09-20-2001	Beach, et al.		
		WO0196584	12-20-2001	Mushegian, et al		

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**INFORMATION DISCLOSURE
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(Use as many sheets as necessary)

Sheet

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of

38

Complete if Known

Application Number	10/789,627
Filing Date	02/26/04
First Named Inventor	Howard Kaufman
Art Unit	1641
Examiner Name	to be assigned
Attorney Docket Number	5199-49

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Agterberg et al., Outer membrane PhoE protein of Escherichia coli as a carrier for foreign antigenic determinants: immunogenicity of epitopes	
		of foot-and-mouth disease virus.	
		Vaccine, 8: 85-91, 1990 (N/A)	
		Allen et al., The identification, cloning and mutagenesis of a genetic locus required for lipopolysaccharide biosynthesis in Bordetella pertussis.	
		Mol. Microbiol., 19: 37-52, 1996	
		Arakawa et al., Mutant loxP vectors for selectable marker recycle and conditional knock-outs.	
		BMC Biotechnol., 1: 7, 2001	
		Ashrafi et al., Genome-wide RNAi analysis of Caenorhabditis elegans fat regulatory genes.	
		Nature, 421: 268-272, 2003	

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				Art Unit	1641
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Sheet	2	of	38	Attorney Docket Number	5199-49

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		Austin et al., A first step in the development of gene therapy for colorectal carcinoma: cloning, sequencing, and expression of Escherichia coli	
		cytosine deaminase.	
		Mol. Pharmacol., 43: 380-387, 1993	
		Ausubel et al., eds., Current Protocols in Molecular Biology (New York, NY: John Wiley & Sons, Inc., 2001) (N/A)	
		Bagshawe et al., A cytotoxic agent can be generated selectively at cancer sites.	
		Br. J. Cancer, 58: 700-703, 1988	
		Bang et al., OmpR regulates the stationary-phase acid tolerance response of Salmonella enterica serovar typhimurium.	
		J. Bacteriol., 182: 2245-2252, 2000	
		Baumler et al., Identification and sequence analysis of lpfABCDE, a putative fimbrial operon of Salmonella typhimurium.	
		J. Bacteriol., 177: 2087-2097, 1995	

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		Baumler et al., The lpf fimbrial operon mediates adhesion of <i>Salmonella typhimurium</i> to murine Peyer's patches.			
		Proc. Natl. Acad. Sci. USA, 93: 279-283, 1996			
		Beers and Berkow (eds.), The Merck Manual of Diagnosis and Therapy, 17th ed. (Whitehouse Station, NJ: Merck Research Laboratories, 1999)			
		973-974, 976, 986, 988, 991 (N/A)			
		Belanger et al., Functional analysis of genes responsible for the synthesis of the B-band O antigen of <i>Pseudomonas aeruginosa</i> serotype			
		O6 lipopolysaccharide.			
		Microbiology, 145: 3505-3521, 1999			
		Bentala et al., Removal of phosphate from lipid A as a strategy to detoxify lipopolysaccharide.			
		Shock, 18: 561-566, 2002			

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		Bignami et al., N-(4'-hydroxyphenylacetyl) palytoxin: a palytoxin prodrug that can be activated by a monoclonal antibody-penicillin G amidase	
		conjugate.	
		Cancer Res., 52: 5759-5764, 1992	
		Billy et al., Specific interference with gene expression induced by long, double-stranded RNA in mouse embryonal teratocarcinoma cell lines.	
		Proc. Natl. Acad. Sci. USA, 98: 14428-14433, 2001	
		Black et al., Creation of drug-specific herpes simplex virus type 1 thymidine kinase mutants for gene therapy.	
		Proc. Natl. Acad. Sci. USA, 93: 3525-3529, 1996	
		Bochner, et al., Positive selection for loss of tetracycline resistance.	
		J. Bacteriol., 143: 926-933, 1980	

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		Boder et al., Yeast surface display for directed evolution of protein expression, affinity, and stability.		
		Methods Enzymol., 328: 430-444, 2000		
		Bone, R. C., Gram-negative sepsis. Background, clinical features, and intervention.		
		Chest, 100: 802-808, 1991		
		Bouterfa et al., Retinoids inhibit human glioma cell proliferation and migration in primary cell cultures but not in established cell lines.		
		Neurosurgery, 46: 419-430, 2000		
		Buchmeier et al., Induction of Salmonella stress proteins upon infection of macrophages.		
		Science, 248: 730-732, 1990		
		Buttner et al., Functional analysis of HrpF, a putative type III translocon protein from Xanthomonas campestris pv. vesicatoria.		
		J. Bacteriol., 184: 2389-2398, 2002		

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		Cairns et al., Lymphotactin expression by engineered myeloma cells drives tumor regression: mediation by CD4+ and CD8+ T cells and	
		neutrophils expressing XCR1 receptor.	
		J. Immunol., 167: 57-65, 2001	
		Carneiro et al., p27 deficiency desensitizes Rb-/cells to signals that trigger apoptosis during pituitary tumor development.	
		Oncogene, 22: 361-369, 2003	
		Cascales et al., Effects of an antitumoural rhodium complex on thioacetamide-induced liver tumor in rats. Changes in the activities	
		of ornithine decarboxylase, tyrosine aminotransferase and of enzymes involved in fatty acid and glycerolipid synthesis.	
		Biochem. Pharmacol., 35: 2655-2661, 1986	
		Charbit et al., Presentation of two epitopes of the preS2 region of hepatitis B virus on live recombinant bacteria.	
		J. Immunol., 139: 1658-1664, 1987	

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		Cheng et al., Activated protein C blocks p53-mediated apoptosis in ischemic human brain endothelium and is neuroprotective.			
		Nat. Med., 9(3): 338-342, 2003			
		Christmann et al., Epitope mapping and affinity purification of monospecific antibodies by Escherichia coli cell surface display of gene-derived random peptide libraries.			
		J. Immunol. Methods, 257: 163-173, 2001			
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		Georgiou et al., Display of beta-lactamase on the Escherichia coli surface: outer membrane phenotypes conferred by Lpp'-OmpA'-beta-lactamase			
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		Hep3B cells.		
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				Application Number	10/789,627
				Filing Date	02/26/04
				First Named Inventor	Howard Kaufman
				Art Unit	1641
				Examiner Name	to be assigned
Sheet	18	of	38	Attorney Docket Number	5199-49

NON PATENT LITERATURE DOCUMENTS		
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		Kerr et al., Antibody-penicillin-V-amidase conjugates kill antigen-positive tumor cells when combined with doxorubicin phenoxyacetamide.
		Cancer Immunol. Immunother., 31: 202-206, 1990
		Khan et al., A lethal role for lipid A in Salmonella infections.
		Mol. Microbiol., 29: 571-579, 1998
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		J. Bacteriol., 184: 4197-4204, 2002

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		Klena et al., Cloning, sequencing, and characterization of the lipopolysaccharide biosynthetic enzyme heptosyltransferase I gene (waaC) from <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> .			
		Gene, 222: 177-185, 1998			
		Knox et al., A new cytotoxic, DNA interstrand crosslinking agents, 5-(aziridin-1-yl)-4-hydroxylamino-2-nitrobenzamide, is formed from			
		5-(aziridin-1-yl)-2,4-dinitrobenzamide (CB 1954) by a nitroreductase enzyme in Walker carcinoma cells.			
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		Protein Sci., 11: 2267-2272, 2002			

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		Kononova et al., The primary structure of the N-terminal region of mature alkaline phosphatase is critical for secretion and function of the enzyme.			
		Biochemistry (Mosc.), 65: 1075-1081, 2000 (N/A)			
		Kornacker et al., Molecular characterization of pula and its product, pullulanase, a secreted enzyme of Klebsiella pneumoniae UNF 5023.			
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		EMBO J., 8: 595-605, 1989			
		Kwong et al., The suppression of colon cancer cell growth in nude mice by targeting beta-catenin/TCF pathway.			
		Oncogene, 21: 8340-8346, 2002			

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		Lamping et al., LPS-binding protein protects mice from septic shock caused by LPS or gram-negative bacteria.			
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		Laochumroonvorapong et al., Perforin, a cytotoxic molecule which mediates cell necrosis, is not required for the early control of focal adhesion kinase			
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		Liu et al., Induction of apoptotic program in cell-free extracts: requirement for dATP and cytochrome c.			
		Cell, 86: 147-157, 1996			

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		Lloyd et al., Molecular characterization of type III secretion signals via analysis of synthetic N-terminal amino acid sequences.			
		Mol. Microbiol., 43: 51-59, 2002			
		Low et al., Lipid A mutant Salmonella with suppressed virulence and TNFalpha induction retain tumor-targeting in vivo.			
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		Nat. Biotechnol., 17: 1101-1104, 1999			
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		Maniatis et al., Molecular Cloning: A Laboratory Manual, 2nd ed. (Cold Spring Harbor: Cold Spring Harbor Laboratory, 1989) (N/A)			
		Marolda et al., Identification, expression, and DNA sequence of the GDP-mannose biosynthesis genes encoded by the O7 rfb gene cluster			
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		VW187 (Escherichia coli O7: K1).			
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		entrapped proteins.			
		J. Biol. Chem., 277: 27135-27143, 2002			

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		Maxwell and Rivera, Proline oxidase induces apoptosis in tumor cells and its expression is absent or reduced in renal carcinoma.	
		J. Biol. Chem., e-publication ahead of print, 2003	
		Mei et al., Optimization of tumor-targeted gene delivery by engineered attenuated Salmonella typhimurium.	
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		Mills et al., Trafficking of porin-deficient Salmonella typhimurium mutants inside HeLa cells: ompR and envZ mutants are defective for the formation of Salmonella-induced filaments.	
		Infect. Immun., 66: 1806-1811, 1998	

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		Moolten et al., Curability of tumors bearing herpes thymidine kinase genes transferred by retroviral vectors.		
		J. Natl. Cancer Inst., 82(4): 297-300, 1990		
		Morishima et al., An endoplasmic reticulum stress-specific caspase cascade in apoptosis. Cytochrome c-independent activation of caspase-9		
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		immunity to wild type tumor.		
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		J. Exp. Med., 196: 1105-1111, 2002		
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		Science, 244: 70-72, 1989		

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		Proc. Natl. Acad. Sci. USA, 99: 10706-10711, 2002	
		Nikolaev et al., Parc. A cytoplasmic anchor for p53.	
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		Proc. Natl. Acad. sci. USA, 96: 13393-13398, 1999	

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				Filing Date	02/26/04
				First Named Inventor	Howard Kaufman
				Art Unit	1641
				Examiner Name	to be assigned
Sheet	28	of	38	Attorney Docket Number	5199-49

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		Sebastiani et al., Host immune response to <i>Salmonella enterica</i> serovar Typhimurium infection in mice derived from wild strains.		
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		Singer et al., The tumor growth-inhibiting cell adhesion molecule CEACAM1 (C-CAM) is differently expressed in proliferating and	
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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/789,627
				Filing Date	02/26/04
				First Named Inventor	Howard Kaufman
				Art Unit	1641
				Examiner Name	to be assigned
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		Zhang et al., An anti-sense construct of full-length ATM cDNA imposes a radiosensitive phenotype on normal cells.			
		Oncogene, 17: 811-888, 1998			
		Zhou et al., Radiation and the Apo2L/TRAIL apoptotic pathway preferentially inhibit the colonization of premalignant human breast cells			
		overexpressing cyclin D1.			
		Cancer Res., 60(10): 2611-2615, 2000			
		Zou et al., Systemic tumor suppression by the proapoptotic gene bik.			
		Cancer Res., 62: 8-12, 2002			
		Zou et al., Apaf-1, a human protein homologous to C. elegans CED-4, participates in cytochrome c-dependent activation of caspase-3.			
		Cell, 90: 405-413, 1997			

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